

Virginia Title V Operating Permit

Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-305 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	Rock-Tenn Company, Mill Division, Inc.
Mailing Address:	P.O. Box 980 Lynchburg, VA 24505
Facility Name:	Rock-Tenn Company, Mill Division, Inc.
DEQ Registration Number:	30188
Facility Location:	1801 Concord Turnpike, Lynchburg, Virginia
AIRS Identification No.:	51-680-0097

<u>Permit Number</u>	<u>Effective Date</u>	<u>Expiration Date</u>
VA-30188	September 24, 2002	September 24, 2007

Robert G. Burnley
Director, Department of Environmental Quality

Signature Date

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I. Facility Information

Permittee

Rock-Tenn Company, Mill Division, Inc.
P.O. Box 980
Lynchburg, VA 24505-0980

Responsible Official

Edward Melton
General Manager

Facility

Rock-Tenn Company, Mill Division, Inc.
1801 Concord Turnpike, Lynchburg
Lynchburg City

Contact Person

Mr. Burnell T. Woodson, Jr.
Process Engineer
(434) 528-6428

AIRS Identification Number: 51-680-0097

Facility Description: SIC Code 2631 – Rock-Tenn Company, Mill Division, Inc. is a manufacturer of recycled paperboard covered by Standard Industrial Classification (SIC) Code 2631. The facility has one recycled paperboard machine. Two coal/distillate oil/LFG boilers and one natural gas/distillate oil/LFG boiler provide the steam requirements to the facility. Paper Machine #1 was officially removed from service on August 15, 2002.

II. Emission Units

Equipment to be operated consists of:

A. Significant Emissions Units

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
Fuel Burning Equipment							
001	001	B&W Sterling Class 24 Boiler with Coal Burner, 1929	122 x 10 ⁶ Btu/hr (heat input)	Air Correction Div. Oil Products Co. UOP ESP, DES 24(666)26-1-3	001	PM, PM-10	March 25, 2002
		B&W Sterling Class 24 Boiler with Distillate Oil Burner, 1929	99 x 10 ⁶ Btu/hr (heat input)				
		B&W Sterling Class 24 Boiler with LFG Burner, 2002	60 x 10 ⁶ Btu/hr (heat input)				
002	002	B&W Sterling Class 24 Boiler with Coal Burner, 1929	122 x 10 ⁶ Btu/hr (heat input)	Air Correction Div. Oil Products Co. UOP ESP, DES 24(666)26-1-3	002	PM, PM-10	March 25, 2002
		B&W Sterling Class 24 Boiler with Distillate Oil Burner, 1929	99 x 10 ⁶ Btu/hr (heat input)				
		B&W Sterling Class 24 Boiler with LFG Burner, 2002	60 x 10 ⁶ Btu/hr (heat input)				
003	003	B&W Sterling Class 24 Boiler with Natural Gas Burner, 1929 (changed from coal 2000)	100 x 10 ⁶ Btu/hr (heat input)	----	----	----	March 25, 2002
		B&W Sterling Class 24 Boiler with Distillate Oil Burner, 1929	99 x 10 ⁶ Btu/hr (heat input)				
		B&W Sterling Class 24 Boiler with LFG Burner, 2002	60 x 10 ⁶ Btu/hr (heat input)				
Paper Machine #2, which includes one natural gas fired pocket ventilator, a vacuum pump pit, a dewatering table, and a dry-end pulper							
MCH2	Roof Fans	Fourdrinier Paper Machine, 1929 (modified 2000)	2000 feet per minute	----	----	----	March 25, 2002

*The Size/Rated capacity and PCD is provided for informational purposes only, and is not an applicable requirement.

B. Insignificant Emission Units

The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
SFS	Secondary Fiber System, consisting of 3 Pulpers, 21 Hydrasieves, and 2 Select Purges	9 VAC 5-80-720 B	VOC, PM	
SC1-10	Ten (10) Stock Chests	9 VAC 5-80-720 B	VOC, PM	
MS1-8	Eight (8) Microsieves	9 VAC 5-80-720 B	VOC, PM	
AES1-2	Two (2) AES Screens	9 VAC 5-80-720 B	VOC, PM	
TK1	Fuel oil storage tank	9 VAC 5-80-720 B	VOC	30,000 gallons
TK2	Fuel oil storage tank	9 VAC 5-80-720 B	VOC	275 gallons
TK3	Safety-Kleen storage tank	9 VAC 5-80-720 B	VOC	30 gallons
TK4	Safety-Kleen storage tank	9 VAC 5-80-720 B	VOC	40 gallons
TK5	Propane storage tank	9 VAC 5-80-720 B	VOC	2,000 gallons
TK6	Propane storage tank	9 VAC 5-80-720 B	VOC	2,000 gallons
TK7	Lubricant storage tank	9 VAC 5-80-720 B	VOC	3,000 gallons
TK8	Waste oil storage tank	9 VAC 5-80-720 C	VOC	275 gallons

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

III. Fuel Burning Equipment Requirements - B&W Sterling Class 24 Coal and Distillate Oil Fired Boilers (Ref. Nos. 001 and 002)

A. Limitations

1. Emissions from the operation of each of the B&W Sterling Class 24 Boilers (Ref. Nos. 001 and 002) shall not exceed the limits specified below when firing coal:

Particulate Matter	14.64 lbs/hr
PM-10	13.42 lbs/hr
Sulfur Dioxide	206.04 lbs/hr
Nitrogen Oxides (as NO ₂)	99.41 lbs/hr

(9 VAC 5-80-110 and Condition 9 of the March 25, 2002 permit)

2. Emissions from the operation of each of the B&W Sterling Class 24 boilers (Ref. Nos. 001 and 002) shall not exceed the limits specified below when firing distillate oil:

Particulate Matter	1.44 lbs/hr
PM-10	1.44 lbs/hr
Sulfur Dioxide	51.70 lbs/hr
Nitrogen Oxides (as NO ₂)	17.28 lbs/hr

(9 VAC 5-80-110 and Condition 11 of the March 25, 2002 permit)

3. Particulate emissions from each of the two (2) B&W Sterling Class 24 boilers (Ref. Nos. 001 and 002) shall be controlled by a multicyclone and an electrostatic precipitator. Each control device shall be provided with adequate access for inspection and each shall be in operation when the respective boiler is operating.
(9 VAC 5-80-110 and Condition 3 of the March 25, 2002 Permit)
4. The approved fuels for the two (2) B&W Sterling Class 24 boilers (Ref. Nos. 001 and 002) are coal, distillate oil, and landfill gas. Distillate oil is defined as fuel oil that meets the specifications for fuel oil numbers 1 or 2 under the American Society for Testing and Materials "Standard Specification for Fuel Oils." A change in the fuels may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 6 of the March 25, 2002 Permit)

5. Fuel - The coal and distillate oil shall meet the specifications below:

COAL:

Maximum sulfur content per shipment: 1.2 %

DISTILLATE OIL which meets the ASTM specifications for numbers 1 or 2 fuel oil:

Maximum sulfur content per shipment: 0.5 %

(9 VAC 5-80-110 and Condition 1 of the March 25, 2002 Permit)

6. Visible emissions from each of the two (2) B&W Sterling Class 24 boilers (Ref. Nos. 001 and 002) shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 60 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
(9 VAC 5-80-110, 9 VAC 5-40-940, and Condition 14 of the March 25, 2002 Permit)
7. The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to the two (2) B&W Sterling Class 24 boilers (Ref. Nos. 001 and 002) and their respective air pollution control equipment which affect such emissions:
- Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance to the boilers (Ref. Nos. 001 and 002) and the air pollution control equipment.
 - Maintain an inventory of spare parts for air pollution control equipment.
 - Have available written operating procedures for the two (2) B&W Sterling Class 24 boilers (Ref. Nos. 001 and 002) and their respective air pollution control equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.
 - Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures. The permittee shall maintain records of the training provided including the names of trainees, the date of training, and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.

(9 VAC 5-80-110, 9 VAC 5-50-20 E, and Condition 23 of the March 25, 2002 Permit)

B. Monitoring

1. The permittee shall obtain a certification from the fuel supplier with each shipment of coal and/or distillate oil. Each fuel supplier certification shall include the following:
 - a. The name of the fuel supplier;
 - b. The date on which the coal and/or distillate oil was received;
 - c. The quantity of coal (in tons) and/or distillate oil (in gallons) delivered in the shipment;
 - d. A statement that the distillate oil complies with the American Society for Testing and Materials specifications for numbers 1 or 2 fuel oil; and
 - e. The sulfur content of the coal and/or distillate oil.

(9 VAC 5-80-110, 9 VAC 5-170-160, and Condition 8 of the March 25, 2002 Permit)

2. At least one time per calendar week, an observation of the presence of visible emissions from each of the two (2) boilers' stacks (Ref. Nos. 001 and 002) shall be made when the respective boiler is operating. If visible emissions are observed, the permittee shall:
 - a. take timely corrective action such that the boiler(s) resumes operation with no visible emissions, or
 - b. perform a visible emission evaluation (VEE) in accordance with 40 CFR 60, Appendix A, Method 9 to assure visible emissions from the boiler stack(s) do not exceed 20 percent opacity. The VEE shall be conducted for a minimum of six minutes. If any of the observations exceed 20 percent, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the boiler(s) resumes operation with visible emissions of 20 percent or less.

The permittee shall maintain a boiler observation log for each boiler to demonstrate compliance with this condition. The log shall include the date and time of the observations, the observer's name, whether or not there were visible emissions, any VEE recordings and any necessary corrective action. If the boiler(s) has not been operated during the week, it shall be noted in the boiler log book that the boiler(s) was not operated and that a visual observation was not required.

(9 VAC 5-80-110 E)

C. Recordkeeping

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:
 - a. All fuel supplier certifications.
 - b. Records sufficient to show compliance with the minimum heat content requirement for coal.
 - c. Results of weekly opacity observations for each of the two (2) B&W Sterling Class 24 boilers' stacks (Ref. Nos. 001 and 002).
 - d. Operating procedures, maintenance schedules, training, and service records for all air pollution related equipment including the boilers and control devices.
 - e. The value and calculation of the F Factor (ratio of the gas volume of the products of combustion to the heat content of the fuel) for the boilers (Ref. Nos. 001 and 002) and the origin and value of all emission factors for all pollutants.
 - f. The results of all stack tests.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110, 9 VAC 5-50-50, and Condition 16 of the March 25, 2002 Permit)

D. Testing

1. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
(9 VAC 5-80-110, 9 VAC 5-50-30 F, and Condition 17 of the March 25, 2002 Permit)
2. At a frequency not to exceed once every five years, the permittee shall conduct a stack test for PM and PM-10 from each of the two (2) B&W Sterling Class 24 boilers (Ref. Nos. 001 and 002) to demonstrate compliance with the pound per hour emission limits contained in Condition III.A.1 of this permit. The test shall be conducted and reported and data reduced as set forth in 9 VAC 5-40-30. The details of the tests shall be arranged with the South Central Regional Office. The permittee shall submit a test protocol at least 30 days prior to testing. Two copies of the test results shall be submitted to the South Central Regional Office within

60 days after test completion and shall conform to the test report format enclosed with this permit.
(9 VAC 5-50-30)

E. Reporting

1. The permittee shall submit written reports in accordance with General Condition No. VIII.C.
(9 VAC 5-80-110 F)

IV. Fuel Burning Equipment Requirements - B&W Sterling Class 24 Natural Gas and Distillate Oil Fired Boiler (Ref. No. 003)

A. Limitations

1. Emissions from the operation of the B&W Sterling Class 24 boiler (Ref. No. 003) shall not exceed the limits specified below when firing natural gas:

Particulate Matter	0.75 lbs/hr
PM-10	0.75 lbs/hr
Nitrogen Oxides (as NO ₂)	9.80 lbs/hr

(9 VAC 5-80-110 and Condition 10 of the March 25, 2002 permit)

2. Emissions from the operation of the B&W Sterling Class 24 Boiler (Ref. No. 003) shall not exceed the limits specified below when firing distillate oil:

Particulate Matter	1.44 lbs/hr
PM-10	1.44 lbs/hr
Sulfur Dioxide	51.70 lbs/hr
Nitrogen Oxides (as NO ₂)	17.28 lbs/hr

(9 VAC 5-80-110 and Condition 11 of the March 25, 2002 permit)

3. The approved fuels for the B&W Sterling Class 24 boiler (Ref. No. 003) are natural gas, distillate oil, and landfill gas. Distillate oil is defined as fuel oil that meets the specifications for fuel oil numbers 1 or 2 under the American Society

for Testing and Materials "Standard Specification for Fuel Oils." A change in the fuel may require a permit to modify and operate.

(9 VAC 5-80-110 and Condition 5 of the March 25, 2002 Permit)

4. Visible emissions from the B&W Sterling Class 24 boiler (Ref. No. 003) shall not exceed 20 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 60 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
(9 VAC 5-80-110, 9 VAC 5-40-940, and Condition 14 of the March 25, 2002 Permit)
5. The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to the B&W Sterling Class 24 boiler (Ref. No. 003):
 - a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
 - b. Have available written operating procedures for the B&W Sterling Class 24 boiler (Ref. No. 003). These procedures shall be based on the manufacturer's recommendations, at a minimum.
 - c. Train operators in the proper operation of the boiler (Ref. No. 003) and familiarize the operators with the written operating procedures. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.

(9 VAC 5-80-110, 9 VAC 5-50-20 E, and Condition 23 of the March 25, 2002 Permit)

B. Monitoring

1. The permittee shall obtain a certification from the fuel supplier with each shipment of distillate oil. Each fuel supplier certification shall include the following:
 - a. The name of the fuel supplier;
 - b. The date on which the distillate oil was received;
 - c. The quantity (in gallons) of distillate oil delivered in the shipment;
 - d. A statement that the distillate oil complies with the American Society for Testing and Materials specifications for numbers 1 or 2 fuel oil; and

- e. The sulfur content of the distillate oil.

(9 VAC 5-80-110, 9 VAC 5-170-160, and Condition 8 of the March 25, 2002 Permit)

- 2. At least one time per calendar month, an observation of the presence of visible emissions from the B&W Sterling Class 24 boiler stack (Ref. No. 003) shall be made. If visible emissions are observed the permittee shall:
 - a. take timely corrective action such that the boiler resumes operation with no visible emissions, or,
 - b. perform a visible emission evaluation (VEE) in accordance with 40 CFR 60, Appendix A, Method 9 to assure visible emissions from the boiler stack do not exceed 20 percent opacity. The VEE shall be conducted for a minimum of six minutes. If any of the observations exceed 20 percent, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the boiler resumes operation with visible emissions of 20 percent or less.
 - c. Any time the monthly visible emission observations show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack. After achieving four (4) consecutive weeks without visible emissions from this stack, the permittee may resume monthly visible emissions observations.

The permittee shall maintain a boiler observation log to demonstrate compliance with this condition. The log shall include the date and time of the observations, the observer's name, whether or not there were visible emissions, any VEE recordings and any necessary corrective action. If the boiler has not been operated during the month or week, it shall be noted in the boiler log book that the boiler was not operated and that a visual observation was not required.

(9 VAC 5-80-110 E)

C. Recordkeeping

- 1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:
 - a. All fuel supplier certifications.
 - b. Results of monthly or weekly opacity observations for the B&W Sterling Class 24 boiler's stack (Ref. No. 003).

- c. Operating procedures, maintenance schedules, training, and service records for all air pollution related equipment including the boiler and control devices.
- d. The value and calculation of the F Factor (ratio of the gas volume of the products of combustion to the heat content of the fuel) for the boiler (Ref. No. 003) and the origin and value of all emission factors for all pollutants.
- e. The results of all stack tests.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110, 9 VAC 5-50-50, and Condition 16 of the March 25, 2002 Permit)

D. Testing

- 1. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
(9 VAC 5-80-110, 9 VAC 5-50-30 F, and Condition 17 of the March 25, 2002 Permit)

E. Reporting

- 1. The permittee shall submit written reports in accordance with General Condition No. VIII.C.
(9 VAC 5-80-110 F)
- 2. The permittee shall furnish written notification to the South Central Regional Office of:
 - a. The actual date on which modification of the B&W Sterling Class 24 boiler (Ref. No. 003) commenced within 30 days after such date.
 - b. The anticipated start-up date of the B&W Sterling Class 24 boiler (Ref. No. 003) postmarked not more than 60 days nor less than 30 days prior to such date.
 - c. The actual start-up date of the B&W Sterling Class 24 boiler (Ref. No. 003) within 15 days after such date.

(9 VAC 5-50-50 and Condition 18 of the March 25, 2002 Permit)

V. Fuel Burning Equipment Requirements - All Fuel Burning Equipment

A. Limitations

1. The consumption of each fuel must be such that each of the following equations are satisfied monthly for each consecutive twelve month period:

a.

$$\frac{(EF_{coal-NOx} \times A) + (EF_{\#2-NOx} \times B \div 1000 \text{ gal}) + (EF_{NG-NOx} \times C \div 10^6 \text{ cf}) + (EF_{LFG-NOx} \times D \div 10^6 \text{ cf})}{2000 \text{ lb/ton}} \leq EL_{NOx}$$

where

$EF_{coal-NOx}$ = Emission factor for coal, in units of pound of nitrogen oxides per ton of coal burned = 22

A = Annual consumption of coal, in units of tons per year, calculated monthly as the sum of each consecutive twelve month period

$EF_{\#2-NOx}$ = Emission factor for #2 distillate oil, in units of pound of nitrogen oxides per 1000 gallons of #2 distillate oil burned = 24

B = Annual consumption of #2 distillate oil, in units of gallons per year, calculated monthly as the sum of each consecutive twelve month period

EF_{NG-NOx} = Emission factor for natural gas, in units of pound of nitrogen oxides per million cubic feet of natural gas burned = 100

C = Annual consumption of natural gas, in units of cubic feet per year, calculated monthly as the sum of each consecutive twelve month period

$EF_{LFG-NOx}$ = Emission factor for landfill gas, in units of pound of nitrogen oxides per million cubic feet of landfill gas burned = 34

D = Annual consumption of landfill gas, in units of cubic feet per year, calculated monthly as the sum of each consecutive twelve month period

EL_{NOx} = Annual emission limit for nitrogen oxides, given in Condition Number 13 of this permit, in units of tons per year = 543.4

b.

$$\frac{(EF_{coal-SOx} \times S_{coal} \times A) + (EF_{\#2-SOx} \times S_{\#2} \times B \div 1000 \text{ gal}) + (EF_{NG-SOx} \times C \div 10^6 \text{ cf}) + (EF_{LFG-SOx} \times D \div 10^6 \text{ cf})}{2000 \text{ lb / ton}} \leq EL_{SOx}$$

where

$EF_{coal-SOx}$ = Emission factor for coal, in units of pounds of sulfur dioxide per ton of coal burned = 38

S_{coal} = Weighted sulfur content of the coal burned, in percent, calculated monthly for each consecutive twelve month period

A = Annual consumption of coal, in units of tons per year, calculated monthly as the sum of each consecutive twelve month period

$EF_{\#2-SOx}$ = Emission factor for #2 distillate oil, in units of pound of sulfur dioxide per 1000 gallons of #2 distillate oil burned = 143.6

$S_{\#2}$ = Weighted sulfur content of the #2 distillate oil burned, in percent, calculated monthly for each consecutive twelve month period

B = Annual consumption of #2 distillate oil, in units of gallons per year, calculated monthly as the sum of each consecutive twelve month period

EF_{NG-SOx} = Emission factor for natural gas, in units of pound of sulfur dioxide per million cubic feet of natural gas burned = 0.6

C = Annual consumption of natural gas, in units of cubic feet per year, calculated monthly as the sum of each consecutive twelve month period

$EF_{LFG-SOx}$ = Emission factor for landfill gas, in units of pound of sulfur dioxide per million cubic feet of landfill gas burned = 17.1

D = Annual consumption of landfill gas, in units of cubic feet per year, calculated monthly as the sum of each consecutive twelve month period

EL_{SO_x} = Annual emission limit for sulfur dioxide, given in Condition Number 13 of this permit, in units of tons per year = 821.1

The above equations must be satisfied monthly for each consecutive 12 month period. In no event shall actual emission rates of any pollutant from burning any fuel exceed those rates represented by the emission factors, given above, for each pollutant and fuel.

(9 VAC 5-80-110 and Condition 7 of the March 25, 2002 Permit)

2. Emissions from the operation of the facility shall not exceed the limits specified below, calculated monthly as the sum of each consecutive 12 month period:

Sulfur Dioxide 821.1 tons/yr

Nitrogen Oxides 543.4 tons/yr
(as NO₂)

(9 VAC 5-80-110 and Condition 13 of the March 25, 2002 Permit)

B. Recordkeeping

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:
 - a. Annual consumption of coal, distillate oil, natural gas, and landfill gas for the facility, calculated monthly as the sum of each consecutive 12 month period.
 - b. The results of the calculations for nitrogen oxide and sulfur dioxide emissions from the facility using the equations shown in Condition Number V.A.1, to demonstrate compliance with the annual emission limits stated in Condition Number V.A.2, calculated monthly as the sum of each consecutive 12 month period.
 - c. The origin and value of all emission factors for all pollutants.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110, 9 VAC 5-50-50, and Condition 16 of the March 25, 2002 Permit)

C. Reporting

1. The permittee shall submit written reports in accordance with General Condition No. VIII.C.
(9 VAC 5-80-110 F)

VI. Process Equipment Requirements Paper Machine #2 (Ref. No. MCH2)

A. Limitations

1. The approved fuel for the pocket ventilators on Paper Machine #2 (Ref. No. MCH2) is natural gas. A change in fuel may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 4 of the March 25, 2002 Permit)
2. Visible emissions from the operation of Paper Machine #2 (Ref. No. MCH2) shall not exceed 10 percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A).
(9 VAC 5-80-110, 9 VAC 5-50-260, and Condition 15 of the March 25, 2002 Permit)
3. Emissions from the operation of Paper Machine #2 (Ref. No. MCH2) shall not exceed the limits specified below, calculated monthly as the sum of each consecutive 12 month period:

Volatile Organic Compounds	23.65 tons/yr
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(9 VAC 5-80-110, 9 VAC 5-50-260, and Condition 12 of the March 25, 2002 Permit)

B. Monitoring

1. At least one time per calendar month, an observation of the presence of visible emissions from each roof exhaust vent for Paper Machine #2 (Ref. No. MCH2) shall be made. If visible emissions are observed the permittee shall:
 - a. take timely corrective action such the Paper Machine (Ref. No. MCH2) resumes operation with no visible emissions, or
 - b. perform a visible emission evaluation (VEE) in accordance with 40 CFR 60, Appendix A, Method 9 to assure visible emissions do not exceed 10 percent opacity. The VEE shall be conducted for a minimum of six minutes. If any of the observations exceed 10 percent, the VEE shall be conducted for a total of 60 minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the Paper Machine (Ref. No. MCH2) resumes operation with visible emissions of 10 percent or less.
 - c. Any time the monthly visible emission observations show visible emissions, or when requested by DEQ, the monitoring frequency shall be increased to once per week for that stack. After achieving four (4) consecutive weeks without visible emissions from this stack, the permittee may resume monthly visible emissions observations.

The permittee shall maintain a Paper Machine (Ref. No. MCH2) observation log to demonstrate compliance with this condition. The log shall include the date and time

of the observations, the observer's name, whether or not there were visible emissions, any VEE recordings and any necessary corrective action. If the Paper Machine (Ref. No. MCH2) has not been operated during the month or week, it shall be noted in the Paper Machine log book that the Paper Machine (Ref. No. MCH2) was not operated and that a visual observation was not required.
(9 VAC 5-80-110 E)

C. Recordkeeping

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the South Central Regional Office. These records shall include, but are not limited to:
 - a. Results of monthly or weekly opacity observations for Paper Machine #2 (Ref. No. MCH2).
 - b. The annual VOC and speciated HAP emissions from the Paper Machine #2 (Ref. No. MCH2) to show compliance with the annual emission limit set forth in Condition Number VI.A.3 of this permit, calculated using a material balance on the amount of chemical(s) consumed, taking into account the volatile species present in the chemical(s), the percent volatile by weight of the chemical(s), and assuming 100% evaporation of all volatile species. The emissions shall be calculated monthly as the sum of each consecutive 12 month period.
 - c. Certified product data sheets or equivalent vendor information as approved by DEQ showing VOC content and HAP content for each chemical agent used with the paper machine (Ref. No. MCH2).
 - d. The results of all stack tests.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-80-110, 9 VAC 5-50-50, and Condition 16 of the March 25, 2002 Permit)

D. Testing

1. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
(9 VAC 5-80-110, 9 VAC 5-50-30 F, and Condition 17 of the March 25, 2002 Permit)

E. Reporting

1. The permittee shall submit written reports in accordance with General Condition No. VIII.C.
(9 VAC 5-80-110 F)

VII. Facility Wide Conditions

A. Limitations

1. Unless otherwise specified in this part, no owner or other person shall cause or permit to be discharged into the atmosphere from any affected facility (constructed, modified or relocated prior to March 17, 1972, or reconstructed prior to December 10, 1976) any visible emissions which exhibit greater than 20% opacity, except for one six-minute period in any one hour of not more than 60% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). Failure to meet the requirements of this section because of the presence of water vapor shall not be a violation of this section.
(9 VAC 5-40-80 and 9 VAC 5-80-110)
2. Unless otherwise specified in this part, on or after the date on which the performance test required to be conducted by 9 VAC 5-50-30 is completed, no owner or other person shall cause or permit to be discharged into the atmosphere from any affected facility (constructed, modified or relocated after March 17, 1972, or reconstructed on or after December 10, 1976) any visible emissions which exhibit greater than 20% opacity, except for one six-minute period in any one hour of not more than 30% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). Failure to meet the requirements of this section because of the presence of water vapor shall not be a violation of this section.
(9 VAC 5-50-80 and 9 VAC 5-80-110)

VIII. General Conditions

A. Enforceability

All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.

(9 VAC 5-80-110 N)

B. Permit Expiration

1. This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless a timely and complete renewal application consistent with 9 VAC 5-80-80, has been submitted, to the Department, by the owner, the right of the facility to operate shall be terminated upon permit expiration.

- a. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
- b. If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.
- c. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.
- d. If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
- e. The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.

(9 VAC 5-80-80, 9 VAC 5-80-110 D, and 9 VAC 5-80-170 B)

C. Recordkeeping and Reporting

1. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
 - a. The date, place as defined in the permit, and time of sampling or measurements.
 - b. The date(s) analyses were performed.
 - c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses.

- f. The operating conditions existing at the time of sampling or measurement.

(9 VAC 5-80-110 F)
- 2. Records of all monitoring data and support information shall be retained on site for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
(9 VAC 5-80-110 F)
- 3. The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than March 1 and September 1 of each calendar year. The time periods to be addressed are January 1 through June 30 and July 1 through December 31. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:
 - a. The time period included in the report.
 - b. All deviations from permit requirements. For purposes of this permit, deviations include, but are not limited to:
 - (1) Exceedance of emissions limitations or operational restrictions;
 - (2) Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or compliance assurance monitoring which indicates an exceedance of emission limitations or operational restrictions; or,
 - (3) Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.
 - c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that “no deviations from permit requirements occurred during this semi-annual reporting period.”
(9 VAC 5-80-110 F)

D. Annual Compliance Certification

Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to DEQ and EPA no later than **March 1** each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices. The time period to be addressed is **January 1 through December 31**. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the

federal Clean Air Act. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

1. The time period included in the certification.
2. A description of the means for assessing or monitoring the compliance of the source with its emissions limitations, standards, and work practices.
3. The identification of each term or condition of the permit that is the basis of the certification.
4. The status of compliance with the terms and conditions of this permit for the certification period.
5. Consistent with subsection 9 VAC 5-80-110 E, identification of the method or methods used for determining the compliance status of the source with each term and condition at the time of certification and over the certification period, and whether such methods or other means provide continuous or intermittent data.
6. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.
7. Such other facts as the permit may require to determine the compliance status of the source.

One copy of the annual compliance certification shall be sent to EPA at the following address:

Clean Air Act Title V Compliance Certification (3AP00)
U. S. Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029.

(9 VAC 5-80-110 K.5)

E. Permit Deviation Reporting

The permittee shall report by the next business day any deviations from permit requirements or any excess emissions, including those attributable to upset conditions as defined in this permit, the probable cause of such deviations, and any corrective actions or preventive measures taken.

(9 VAC 5-80-110 F.2)

F. Failure/Malfunction Reporting

In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour,

the owner shall, as soon as practicable but no later than four daytime business hours, notify the South Central Regional Office by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within two weeks provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the South Central Regional Office.
(9 VAC 5-20-180 C)

G. Severability

The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.
(9 VAC 5-80-110 G.1)

H. Duty to Comply

The permittee shall comply with all terms and conditions of this permit, including those terms and conditions set forth in a tabular format. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.
(9 VAC 5-80-110 G.2)

I. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
(9 VAC 5-80-110 G.3)

J. Permit Action for Cause

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause as specified in 9 VAC 5-80-110 L, 9 VAC 5-80-240 and 9 VAC 5-80-260. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
(9 VAC 5-80-110 G.4)
2. Such changes that may require a permit modification and/or revisions include, but are not limited to, the following:

- a. Erection, fabrication, installation, addition, or modification of an emissions unit (which is the source, or part of it, which emits or has the potential to emit any regulated air pollutant), or of a source, where there is, or there is potential of, a resulting emissions increase;
- b. Reconstruction or replacement of any emissions unit or components thereof such that its capital cost exceeds 50% of the cost of a whole new unit;
- c. Any change at a source which causes emission of a pollutant not previously emitted, an increase in emissions, production, throughput, hours of operation, or fuel use greater than those allowed by the permit, or by 9 VAC 5-80-11, unless such an increase is authorized by an emissions cap; or any change at a source which causes an increase in emissions resulting from a reduction in control efficiency, unless such an increase is authorized by an emissions cap;
- d. Any reduction of the height of a stack or of a point of emissions, or the addition of any obstruction which hinders the vertical motion of exhaust;
- e. Any change at the source which affects its compliance with conditions in this permit, including conditions relating to monitoring, recordkeeping, and reporting;
- f. Addition of an emissions unit which qualifies as insignificant by emissions rate (9 VAC 5-80-720 B) or by size or production rate (9 VAC 5-80-720 C);
- g. Any change in insignificant activities, as defined by 9 VAC 5-80-90 D.1.a(1) and 9 VAC 5-80-720 B and 9 VAC 5-80-720 C.

(9 VAC 5-80-110 G, 9 VAC 5-80-110 J, 9 VAC 5-80-240, and 9 VAC 5-80-260)

K. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. (9 VAC 5-80-110 G.5)

L. Duty to Submit Information

- 1. The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality. (9 VAC 5-80-110 G.6)
- 2. Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the

requirements of 9 VAC 5-80-80 G.
(9 VAC 5-80-110 K.1)

M. Duty to Pay Permit Fees

The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-305 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-355. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by **April 15** of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department.
(9 VAC 5-80-110 H and 9 VAC 5-80-340 C)

N. Fugitive Dust Emission Standards

During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

1. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
2. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or other similar operations;
4. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
5. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-40-90 and 9 VAC 5-50-90)

O. Startup, Shutdown, and Malfunction

At all times, including periods of startup, shutdown, soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air

pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20)

P. Alternative Operating Scenarios

Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1. (9 VAC 5-80-110 J)

Q. Inspection and Entry Requirements

The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

1. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
4. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2)

R. Reopening For Cause

The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F.

1. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
2. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
3. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

(9 VAC 5-80-110 L)

S. Permit Availability

Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.

(9 VAC 5-80-150 E)

T. Transfer of Permits

1. No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.
(9 VAC 5-80-160)
2. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)
3. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)

U. Malfunction as an Affirmative Defense

1. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the conditions of paragraph 2 are met.

2. The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
 - a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
 - b. The permitted facility was at the time being properly operated.
 - c. During the period of malfunction, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit.
 - d. The permittee notified the board of the malfunction within two working days following the time when the emissions limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, telegraph, or any other method that allows the permittee to comply with the deadline. The notice fulfills the requirement of 9 VAC 5-80-110 F.2. b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirements under 9 VAC 5-20-180 C.
3. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any requirement applicable to the source.
4. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.

(9 VAC 5-80-250)

V. Permit Revocation or Termination for Cause

A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe, any permit for any of the grounds for revocation or termination or for any other violations of these regulations.

(9 VAC 5-80-260)

W. Duty to Supplement or Correct Application

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.

(9 VAC 5-80-80 E)

X. Stratospheric Ozone Protection

If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.

(40 CFR Part 82, Subparts A-F)

Y. Accidental Release Prevention

If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.

(40 CFR Part 68)

Z. Changes to Permits for Emissions Trading

No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.

(9 VAC 5-80-110 I)